	Application No.	Applicant(s)
Notice of Allowability	10/650,890	CHEN et al.
	Examiner	Art Unit
	Lee, Calvin	2825
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>Amendment A dated 11/16/04</u> .		
2. The allowed claim(s) is/are 20 and 23-39.		
3. The drawings filed on 28 August 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	·	• •
1. Notice of References Cited (PTO-892)	_	ormal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413), Mail Date <u></u>
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		Amendment/Comment
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's S	Statement of Reasons for Allowance
of Biological Material	9.	
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Application No: 10/650,890

Docket: FIS9200102952

OFFICE ACTION

Allowable Subject Matter

1. Claims 20 and 23-39 are allowed. Following is a statement reason of allowance: Wang '907 is directed to a metal-to-metal antifuse structure (and its fabrication method) comprising a first cap layer 28 using conventional deposition techniques and a second cap layer 38 using conventional techniques. Wang, however, fails to disclose a particular combination of deposition techniques, inter alia, a first cap layer formed by a high density plasma chemical vapor deposition (HDPCVD) process and the second cap layer formed by a plasma-enhanced chemical vapor deposition (PECVD) process, wherein the second cap layer comprises a plurality of thin films.

The added features to the method claims of making the cap layers provide improved structural integrity to the device (i.e., the HDPCVD provides improved adhesion and the PECVD provides good material interaction between the HDPCVD material and the low K material).

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

3. Any inquiry concerning this communication from the Examiner should be directed to *Calvin Lee* at (571) 272-1896, Monday to Thursday, from 7 to 5 (ET). If attempts to reach the examiner by telephone are unsuccessful, Art Unit 2825's Supervisory Patent Examiner *Matthew Smith* whose telephone number is (571) 272-1907.

Any inquiry relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0596. The fax phones are (703) 872-9318 for regular communications and (703) 872-9319 for After-Final communications.

December 12, 2004

MATTHEW SMITH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800